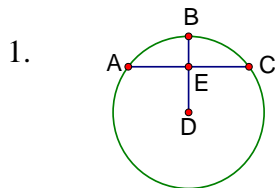


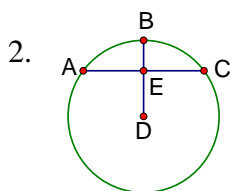
**Chapter 8:** Circles  
**Section 8-4:** Arcs and Chords  
**Homework**

Name \_\_\_\_\_  
 Date \_\_\_\_\_  
 Period \_\_\_\_\_



$$\overline{AE} \cong \overline{EC}$$

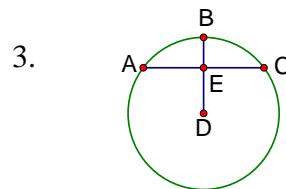
Find  $m\angle AEB$  \_\_\_\_\_



$$AC \perp BD$$

$$m\overline{AC} = 10$$

Find  $m\overline{AE}$  \_\_\_\_\_

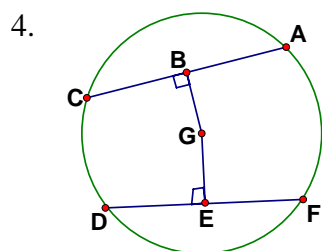


$$AC \perp BD$$

$$m\overline{ED} = 22$$

$$DC = 32$$

Find  $m\overline{EB}$  \_\_\_\_\_

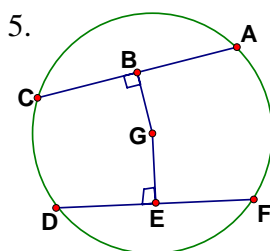


$$\overline{AC} \cong \overline{DF}$$

$$m\widehat{AF} = 80^\circ$$

$$m\widehat{CD} = 60^\circ$$

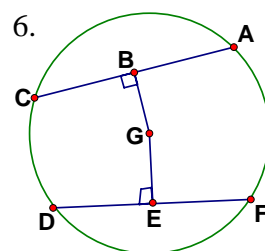
Find  $m\widehat{AC}$  \_\_\_\_\_



$$\overline{AC} \cong \overline{DF}$$

$$m\overline{BG} = 4$$

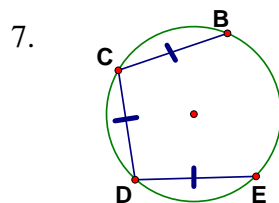
Find  $m\overline{GE}$  \_\_\_\_\_



$$m\overline{GE} = 7$$

$$GF = 25$$

Find  $m\overline{DF}$  \_\_\_\_\_



$$m\widehat{BE} = 210^\circ$$

Find  $m\widehat{CD}$  \_\_\_\_\_

8. Suppose that a circle has a radius of 35 units and a chord is 56 units. Find the distance from the center to the chord.  
 \_\_\_\_\_.

9. Suppose the diameter of a circle is 20 feet long and a non-intersecting chord is 12 feet long. Find the distance between the chord and the center. \_\_\_\_\_